

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A tunable two-pole passive notch filter circuit for attenuating select frequencies of a multi-frequency CATV signal, comprising:
 - an input for receiving a multi-frequency CATV signal;
 - an output for transmitting a portion of the multi-frequency CATV signal; and
 - a filter network for attenuating a band of frequencies from said multi-frequency signal, said filter network comprising three branches A, B, and C, wherein branch A and branch B are connected in parallel and are arranged in series connection between the input and output, branch A comprises an inductor, branch B comprises an adjustable parallel tank circuit, and branch C comprises an adjustable electrical resonator.
2. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said adjustable electrical resonator comprises a parallel LC circuit shunted between branch C and ground.
3. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said branch B further comprises a stabilizing inductor connected between said adjustable tank circuit and said output.

4. (Original) The tunable two-pole passive notch filter circuit of claim 2, wherein said branch B further comprises a stabilizing inductor connected between said adjustable tank circuit and said output.
5. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.
6. (Original) The tunable two-pole passive notch filter circuit of claim 2, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.
7. (Original) The tunable two-pole passive notch filter circuit of claim 3, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.
8. (Original) The tunable two-pole passive notch filter circuit of claim 4, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.
9. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

10. (Original) The tunable two-pole passive notch filter circuit of claim 2, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.
11. (Original) The tunable two-pole passive notch filter circuit of claim 3, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.
12. (Original) The tunable two-pole passive notch filter circuit of claim 4, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.
13. (Original) The tunable two-pole passive notch filter circuit of claim 5, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.
14. (Original) The tunable two-pole passive notch filter circuit of claim 6, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.
15. (Original) The tunable two-pole passive notch filter circuit of claim 7, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

16. (Original) The tunable two-pole passive notch filter circuit of claim 8, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

17. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said adjustable tank circuit and said adjustable electrical resonator each include a variable inductor for adjusting the resonant frequency thereof to thereby adjust the poles of said circuit.

18. (Original) The tunable two-pole passive notch filter circuit of claim 1, wherein said adjustable tank circuit and said adjustable electrical resonator each include a variable capacitor for adjusting the resonant frequency thereof to thereby adjust the poles of said circuit.

19. (Original) A tunable two-pole passive notch filter circuit for attenuating select frequencies of a multi-frequency CATV signal, comprising:
an input for receiving a multi-frequency CATV signal;
an output for transmitting a portion of the multi-frequency CATV signal; and
a filter network for attenuating a band of frequencies from said multi-frequency signal, said filter network comprising three branches A, B, and C, wherein branch A comprises an inductor, branch B comprises an adjustable tank circuit, and branch C comprises an adjustable electrical resonator connected to at least one of the input or the output, and wherein branch A and branch B are connected in parallel and are arranged in

series connection between the output and a second inductor, said second inductor arranged in series between the input and branches A and B.

20. (Original) The tunable two-pole passive notch filter circuit of claim 19, wherein said adjustable electrical resonator comprises a parallel LC circuit shunted between Branch C to ground.

21. (Original) The tunable two-pole passive notch filter circuit of claim 19, wherein said branch B further comprises a stabilizing inductor connected between said adjustable tank circuit and said output.

22. (Original) The tunable two-pole passive notch filter circuit of claim 20, wherein said branch B further comprises a stabilizing inductor connected between said adjustable tank circuit and said output.

23. (Original) The tunable two-pole passive notch filter circuit of claim 19, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.

24. (Original) The tunable two-pole passive notch filter circuit of claim 20, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.

25. (Original) The tunable two-pole passive notch filter circuit of claim 21, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.

26. (Original) The tunable two-pole passive notch filter circuit of claim 22, wherein said branch C further comprises a first capacitor connected between said input and said adjustable electrical resonator.

27. (Original) The tunable two-pole passive notch filter circuit of claim 23, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

28. (Original) The tunable two-pole passive notch filter circuit of claim 24, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

29. (Original) The tunable two-pole passive notch filter circuit of claim 25, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

30. (Original) The tunable two-pole passive notch filter circuit of claim 26, wherein said branch C further comprises a second capacitor connected between said adjustable electrical resonator and said output.

31. (Original) The tunable two-pole passive notch filter circuit of claim 19, wherein said adjustable tank circuit and said adjustable electrical resonator each include a variable inductor for adjusting the resonant frequency thereof to thereby adjust the poles of said circuit.

32. (Original) The tunable two-pole passive notch filter circuit of claim 19, wherein said adjustable tank circuit and said adjustable electrical resonator each include a variable capacitor for adjusting the resonant frequency thereof to thereby adjust the poles of said circuit.

33. (Original) A tunable two-pole passive notch filter circuit, comprising:
an input;
an output;
an adjustable tank circuit arranged in series connection between said input and said output;
a fourth inductor arranged in parallel with said adjustable tank circuit, and in series connection between said input and said output; and
an adjustable resonant circuit arranged in series connection between said input and said output.

34. (Original) The tunable two-pole passive notch filter circuit of claim 33, further comprising a third inductor arranged in series connection between said adjustable tank circuit and said output.

35. (Original) The tunable two-pole passive notch filter circuit of claim 34, further comprising a fifth inductor arranged in series connection between said input and said adjustable tank circuit.

36. (Original) The tunable two-pole passive notch filter circuit of claim 35, further comprising a third capacitor arranged in series connection between said input and said adjustable resonant circuit and a fourth capacitor arranged in series connection between said adjustable resonant circuit and said output.

37. (Original) The tunable two-pole passive notch filter circuit of claim 36, wherein said adjustable resonant circuit is shunted between ground and said third and fourth capacitors.